PEO EIS
PEO Enterprise Information Systems

Project Manager,
Transportation Information Systems

TC-AIMS II Fielding Command Gaining Command Briefing

Fort Hood

4 Aug 2004

Presented by
MAJ Darrell Bennis
APM

Purpose

- Provide an overview of the TC-AIMS II requirements, development strategy, and the USA deployment business process supported by TC-AIMS II Block 1 and Block 2 (Unit Move)
- Outline the USA TC-AIMS II Basis of Issue
- Outline the fielding process
- Identify support to be provided by gaining installation

Agenda

- Transportation Information Systems Joint Program Management Office (TIS JPMO)
- TC-AIMS II requirements and acquisition strategy
- TC-AIMS II capabilities
- TC-AIMS II Basis of Issue
- Fielding planning information

PM Transportation Information Systems

TIS JPMO Focus

Mission:

Develop, field and support enterprise information systems for the joint defense deployment and transportation community

Near-Term Objective:

Evolve TC-AIMS II into a single integrated IT system running multiple deployment and transportation applications to achieve ITV and TAV for Joint Commanders

PM, Transportation Information Systems Programs

Joint Migration Systems

TC-AIMS II
(ACAT IAM)
Transportation Coordinators' - Automated Information for Movements System

AALPS
(ACAT IV)
Automated Airload Planning System

Army Legacy Systems

TC ACCIS
Transportation Coordinators Automated Command and Control Information System

DAMMS-R
Department of the Army Movement Management System-Redesign

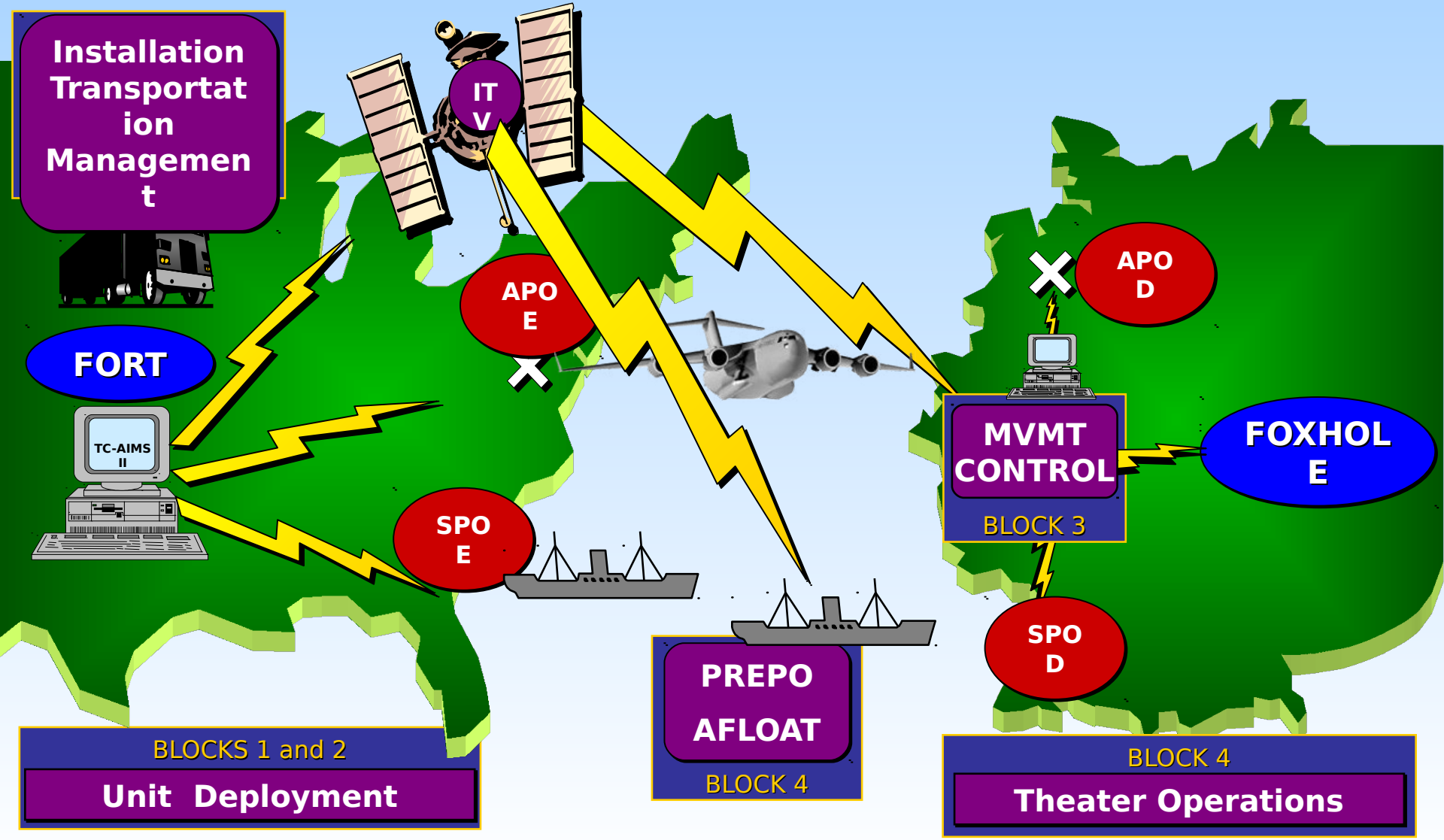
TIS-TO
Transportation Information System-
Theater Operations
(Web-based version of DAMMS-R)

What does TC-AIMS II do?

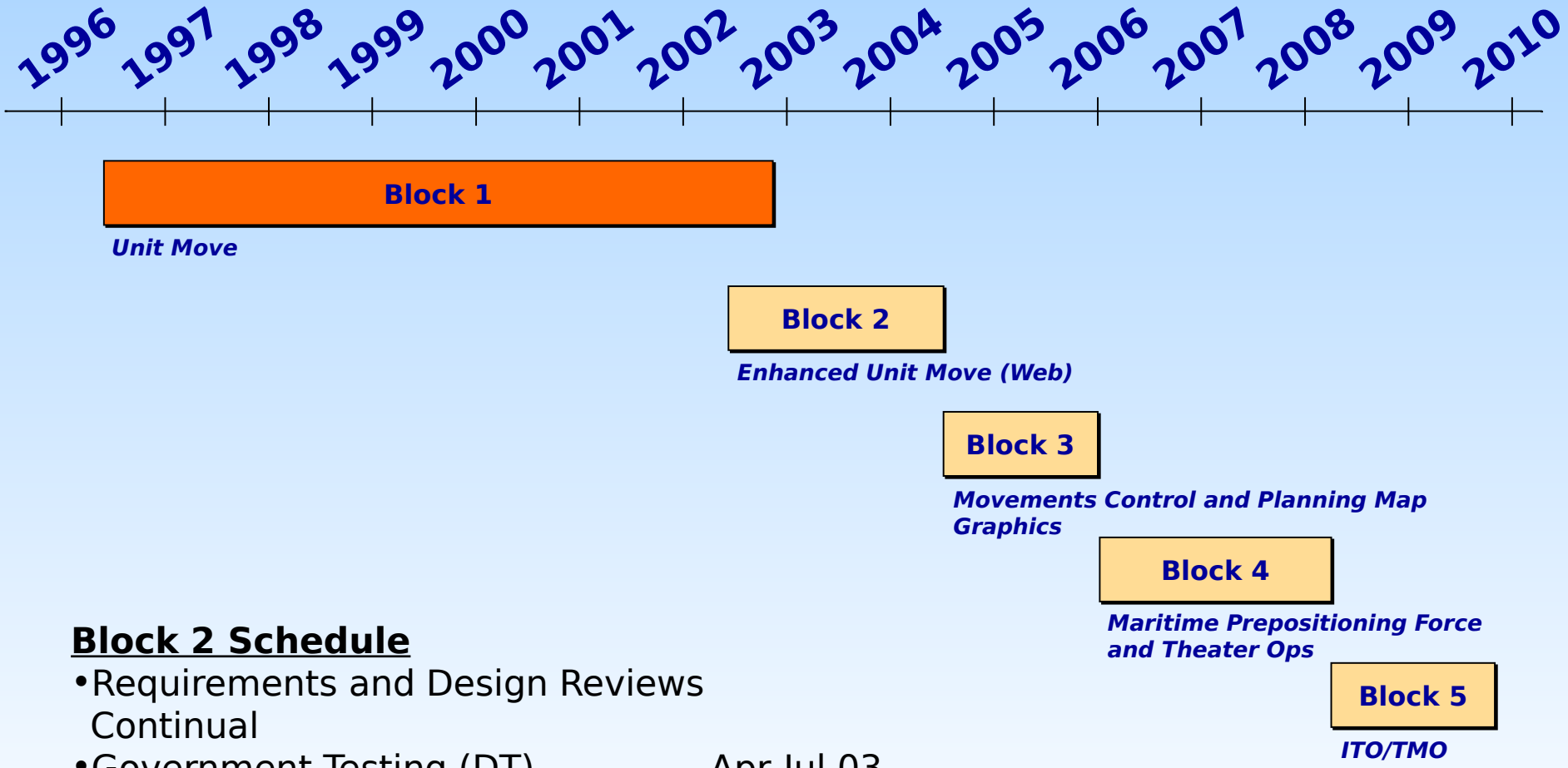
TC-AIMS II automates the processes of planning, organizing, coordinating, and controlling unit-related deployments, sustainment, day-to-day Installation Transportation Officer/Transportation Management Officer (ITO/TMO) operations, redeployment, and retrograde operations in support of the Defense Transportation System (DTS)

Requirements and Acquisition Strategy

Operational View



TC-AIMS II Acquisition Structure
(Funded Across POM)

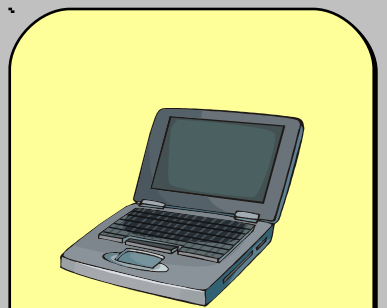


Block 2 Schedule

- Requirements and Design Reviews Continual
- Government Testing (DT) Apr-Jul 03
- Test and Evaluation (OT) Apr-Jun 04
- Milestone III (Fielding Decision) Aug 04

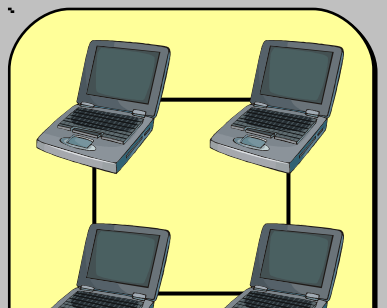
Scaleable System

BLOCK 1



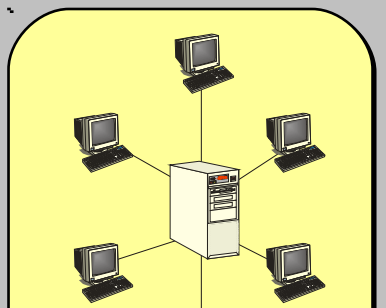
Standalone

- Supports user with limited or no network connectivity
- All TC-AIMS II components are installed on user's machine including the database and application
- Data can be exported to a flat file and shared with other TC-AIMS II databases



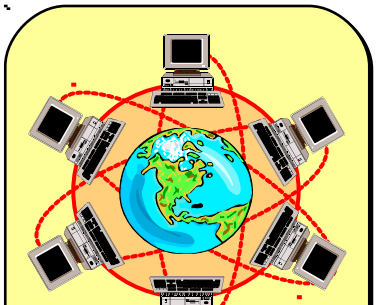
Workgroup

- TC-AIMS II machines connected as a workgroup supports client/server or standalone operations
- Any machine with the database can be the server
- Any machine with the application can be a client
- Supports occasional connection to the tactical network for external system communications



Client/Server

- Supports users with network connectivity
- Each machine on the network is considered a client or a server
- Server machines typically contain only the TC-AIMS II database
- Client machines typically contain only the application and other system components



Web Enabled

- Enterprise System
- Co-hosted applications: TC-AIMS II, AALPS, ICODES, TIS-TO and DS2T
- Server consolidation
- Joint Transportation Reference Information Portal (JTRIP) for data services
- Enhanced context sensitive help

BLOCK 2

TC-AIMS II Information Assurance

Information Assurance

- System accredited as sensitive but unclassified
- Has certificate of network worthiness
- Generic SOP for local adaptation
- Requires local administration of user TIS accounts
- ACERT process
  - TIS will test and post results on web site https://www.tis.army.mil/help.htm
  - Local SA will apply to local boxes
  - TIS will apply to enterprise
- Will provide download site for documentation within 30 days

Key Players in Local User Account Management

Local Administrators

To positively identify users; create TIS accounts; create user application profiles; and manage user accounts for a defined set of units (UICs)

- Meet IT Category II requirements verified by IASO
- Roles/responsibilities verified by unit commander
- Positive Identification performed by TIS fielding team during NMIB/Site Survey
- Attend local administrator workshop during NMIB/Site Survey

Unit Commander

(or designee) of specific military unit that can authorize access to TIS application and verify roles/responsibilities for access and use of unit data within TIS applications

User Qualifications

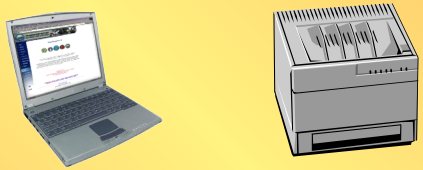
- Meet IT Category III requirements verified by IASO
- Roles/responsibilities verified by unit commander
- Positive identification performed by local administrator

Position Category	Civilian	Military	Contractor	Non-U.S. Citizen*
IT-I (SA/IA)	SSBI	SSBI	SSBI	SSBI, if approval granted
IT-II (SA/DBA)	NACI	NACLC	NACLC	NACLC
IT-III (Users)	NACI	NAC	NAC	NAC

TC-AIMS II Basis of Issue Plan and System Support

TC-AIMS II Equipment

Work Station



C27435 AN/TYQ-129(V)2
(TC-AIMS II Work Station)

- Intel CPU based COTS laptop
- Windows 2000 operating system
- 16 ppm laser printer

Interrogator Set

Z52950 AN/TYQ-95
(Interrogator Set)

- Handheld interrogator/scanner
- RF interrogator
- Bar code printers
- Portable bar code printers

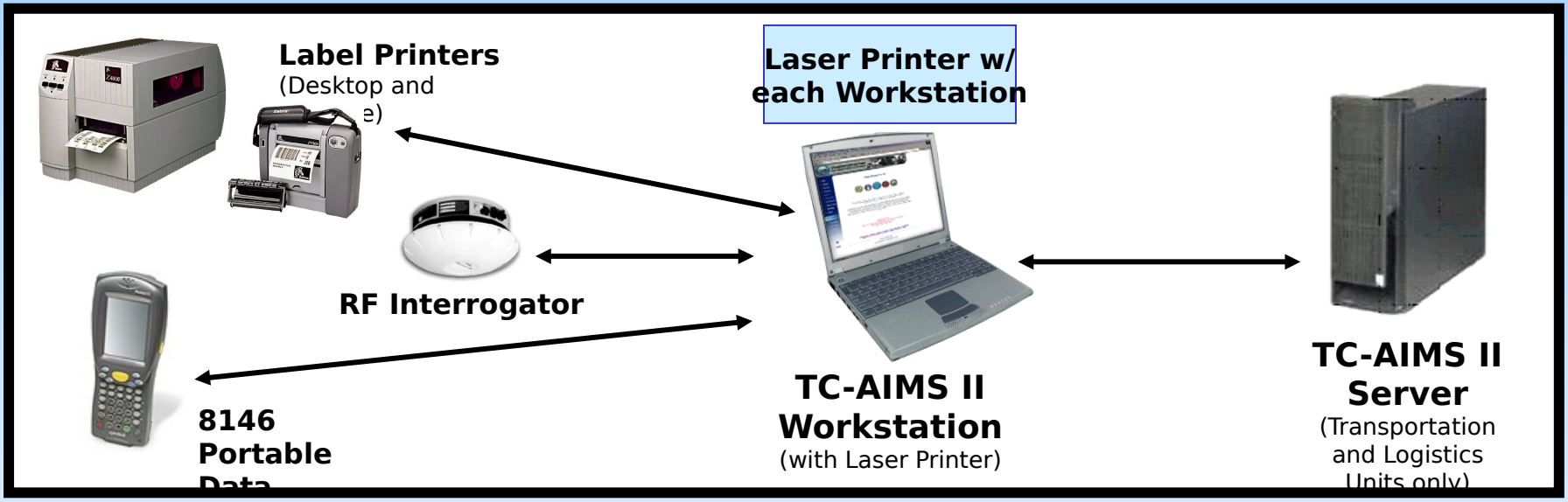
Server

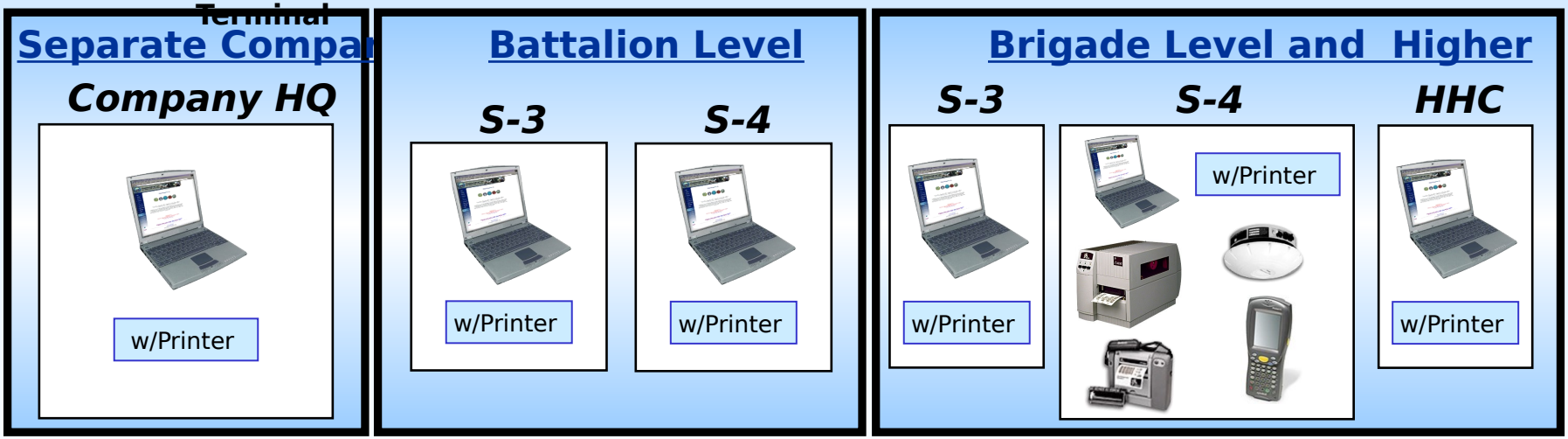
OR

C27367 AN/TYQ-129(V) 1
(TC-AIMS II Server)

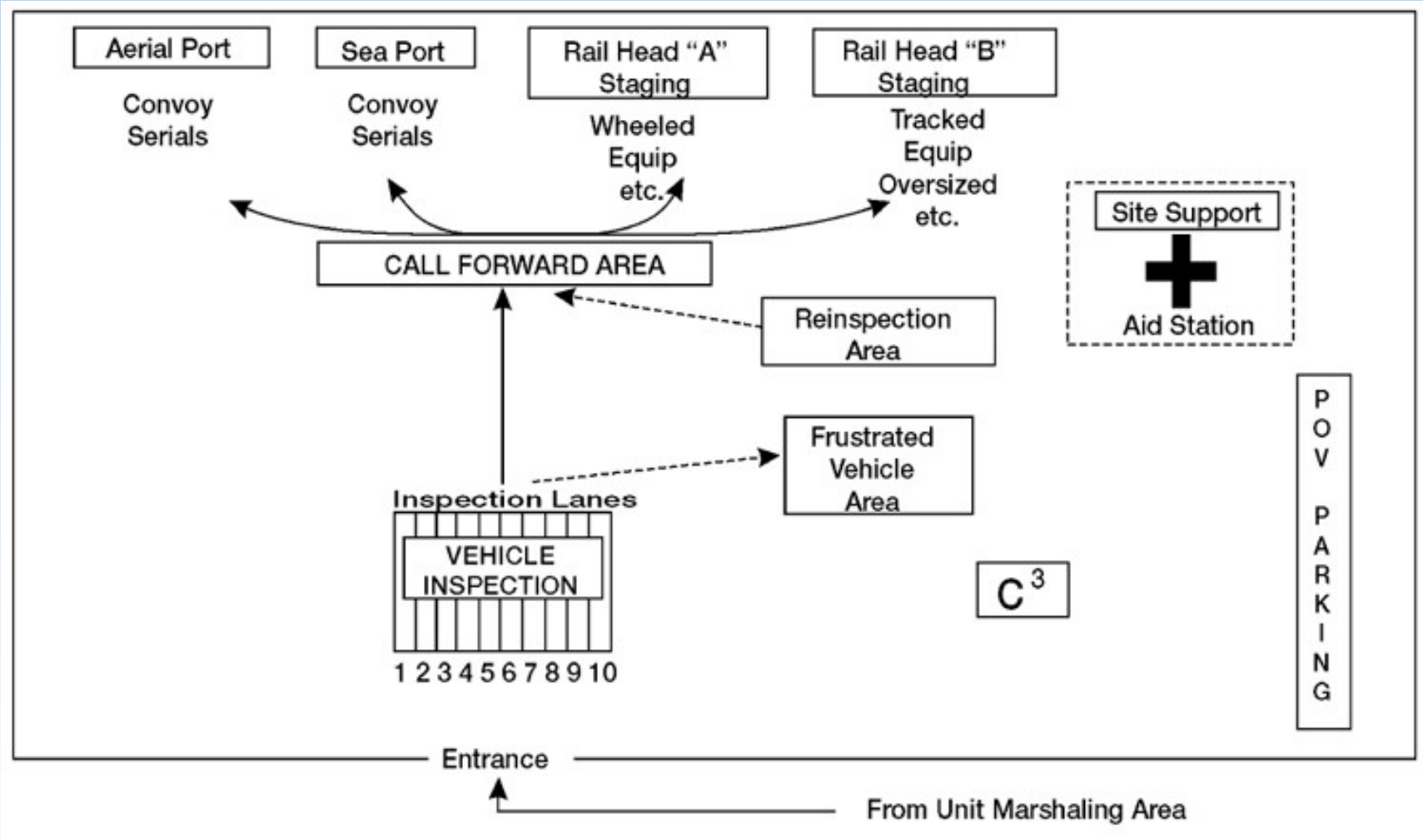
- Intel CPU based COTS

TC-AIMS II Typical Unit Move Hardware Distribution





Notional Deployment Infrastructure



Hardware requirements are driven by work load and geographic dispersion of work sites

USA System Support Concept

TC-AIMS II Help Desk

- Software Support
- Hardware Use Procedures
- 866-TCAIMS2 (866-822 4672)

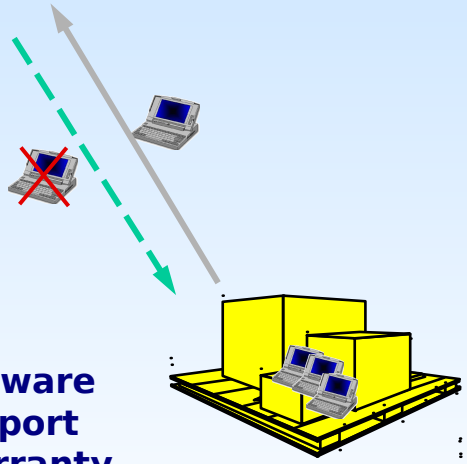
Bde SA/DBA

- Software Support
- Hardware
- Communications

UNIT

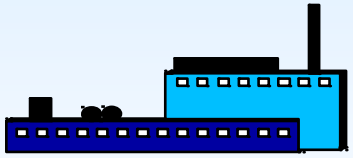
CSS AMO

- Software Support
- Hardware
- Communications



Hardware Support & Warranty Service

DSU/IMMA SCX



Vendor or Forward Repair Activity

Fort Hood Regional Fielding Distribution Summary

TOE Units Summary

Component	Server C27367	Workstation C27435	Interrogator Set Z52950
Active Army	9	448	82
National Guard	0	26	8
Reserves	0	0	0
Total	9	474	90

TDA Summary

COMPO	Fixed Server	Tower Server	Laptop Server	Laptop	Printer	Bar Code Printer	Hand Held Interrogator	RFI	Solar RFI
Active Army	0	0	0	53	23	17	17	7	2
National Guard	0	0	0	6	6	0	0	0	0
Reserves	0	0	0	0	0	0	0	0	0
Total	0	0	0	59	29	17	17	7	2

Training

New Equipment Training Approach

- Maximum use of Video Tele-Training (VTT)

Utilize existing US Army Distance Training Facilities (DTF)

- An assistant instructor (AI) in each classroom, for setup and trouble-shooting

Maximize number of trainees per delivery

- Currently train up to 80 students at the same time (5 concurrent DTF classes of 16 students each)

Utilize existing resident training material, with minor VTT-related modification

- Trainees receive same training as a resident course
- Includes an end-of-course exam and an end-of-course evaluation

Augment VTT with Traditional Classroom Delivery

- Currently train up to 20 students per classroom
- Instructor & Assistant per Classroom

Distance Training Facilities

Interactive Multi-Media Training Approach

- Multimedia Training
  - Provides hands-on, self-paced, online training
  - May be accessed from the application via help facilities or in a standalone mode
  - Used as a refresher for trained operators
  - Can be used for new operator under direction of trained supervisor

Scenario Based Training

- Provides a collective training exercise that:
  - Allows organizational users to work in their respective deployment roles
  - Requires coordination with external participants (interfacing systems and activities such as ITO, RRC, or STARC)
  - Provides the organizations opportunity to validate its intended deployment process
- Intended to train key users on how to conduct collective training
- Includes a scenario, procedures, checklists and descriptive information to exercise the pre-deployment, deployment, and re-deployment of a Brigade size element

Scenario Based Training Participants

SBT Participant	# Players	Role Players	Units For 1st SBT	Units for 2nd SBT
ITO	3	OPS, FREIGHT, ADACG		
CORPS HQS	1	SUPPORTING HQS		
COSCOM HQS	1	SUPPORTING HQS		
COSCOM BN	1	SUPPORTING HQS		
COSCOM UNIT	1	DEPLOYING UNIT		
COSCOM MCT (PORT)	1	DEPLOYING UNIT		
CORPS SEP HQS	1	SUPPORTING HQS		
CORPS SEP BN	1	DEPLOYING UNIT		
CO OF CORPS SEP BN	1	DEPLOYING UNIT		
DIV HQS	1	SUPPORTING HQS		
DIV BDE	1	DEPLOYING UNIT		
DIV BN	1	DEPLOYING UNIT		
DIV CO	2	DEPLOYING UNIT		
USAR RRC	1	SUPPORTING HQS		
USAR UNIT	1	DEPLOYING UNIT		
NCARNG STARC	1	SUPPORTING HQS		
NCARNG UNIT	1	DEPLOYING UNIT		

Specific units and UICs to be provided by Gaining Command at NMIB/Site Survey

Block 2 Training Courses

- User Course
  - 10 training days per class
  - 16 students per Distance Learning classroom (20 per traditional classroom)
  - New TC-AIMS II users
  - General allocation is two per workstation
- User Refresher Course
  - 5 training days per class
  - 16 students per Distance Learning classroom (20 per traditional classroom
  - Previously trained TC-AIMS II users.
- SA/DBA Course
  - 5 training days per class
  - Max. 10 students per class
  - General allocation 1 per server

On-line Training Administration

Army Training Requirements and Resources System (ATTRS)

School code: 026

School name: Transportation Information School

Why ATRRS?

- Early determination for changes to training schedules based on student load
- Provide a record that commanders can review to determine who has been
  TC-AIMS II trained
- Verify student training attendance for calculating promotion points
- Increase attendance from the 30% to 50% levels that occurred with registration at the local level

➢ Provides course information, including training requirements

- Manages class schedule
- Allocates class quotas
- Makes seat reservations
- Records student attendance

Specific class quotas to be determined during site Survey

ATRRS Registration Standards

- **<u>60 Days</u>** prior to class start - **classes 30% filled**
  - If not, notice from TIS training coordinator to POC's
- **<u>45 Days</u>** prior to class start – **classes 50% filled**
  - If not, notice from TIS training coordinator identifying potential consolidations or cancellations
- **<u>30 Days</u>** prior to class start – **1st months classes 70% filled with 100% registered students having DL account and Enterprise accounts requested**
  - If not, notice from TIS training coordinator identifying consolidations and cancellations
- **<u>30 Days</u>** prior to subsequent class start – **classes 70% filled with 100% registered students having DL account and Enterprise accounts requested**

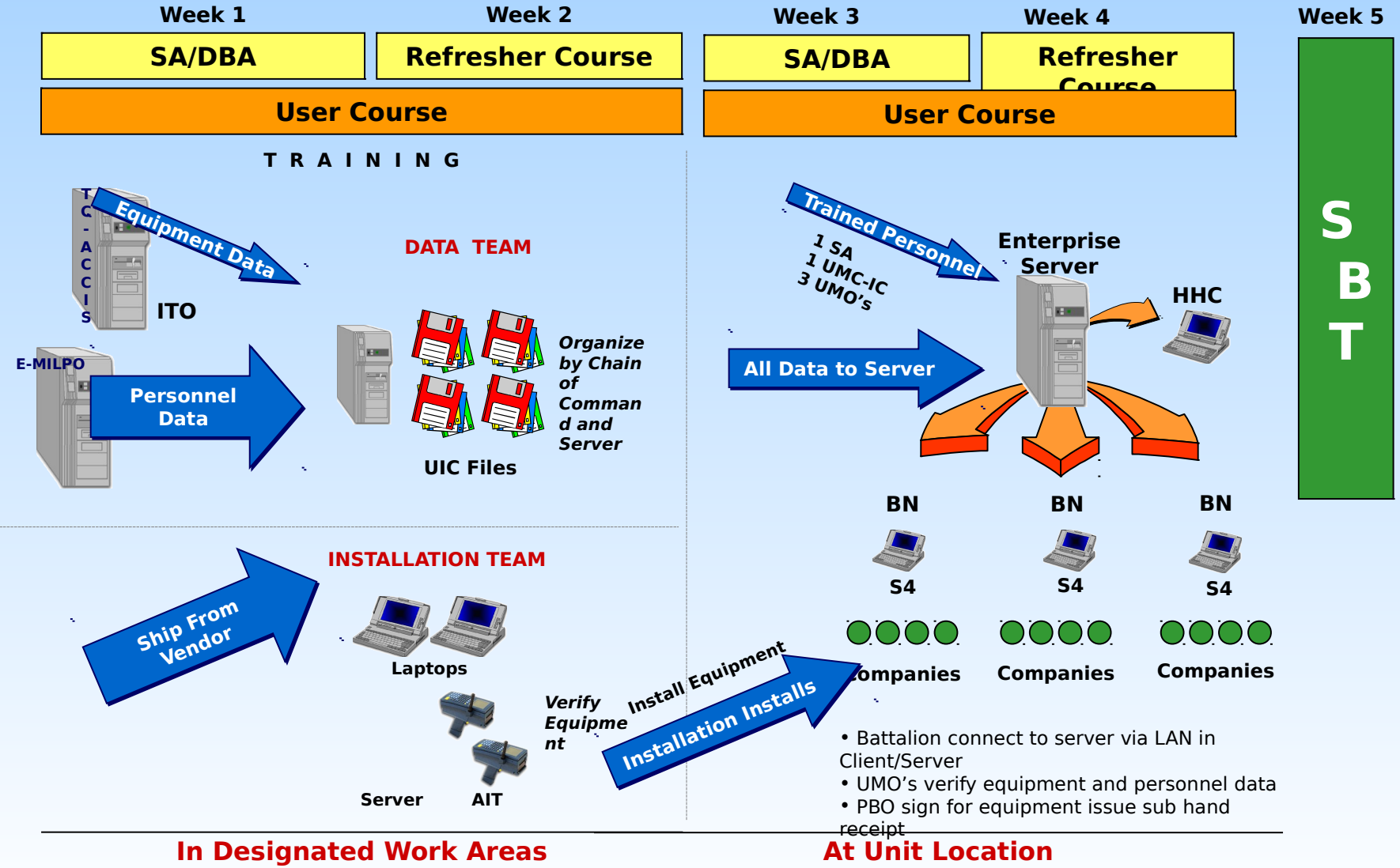
Preliminary Training Allocations

Component	SA/DBA Personnel Requirements	User/Operator Personnel Requirements
Active Army	9	660
National Guard	0	32
USA Reserves	0	0
Course Requirements	**SA/DBA Course**	**User Course**
Total based on personnel numbers	1	39

Requires 1 Traditional and 2 Distance Learning Facilities

TC-AIMS II Fielding Process

Typical Fielding Process



TC-AIMS II Data Conversion and Data Completion Requirements

Data Completion During Fielding

- Data fields must be populated
  - For complete and accurate movement documentation
  - To efficiently and effectively interface with external systems to effect movement and In-Transit Visibility
- How long is this going to take?

  Unit personnel and data dependent
- Who is going to do it?
  - *Initial conversion done by JPMO fielding team*
  - *Trained UMO with the assistance of the PBO, HAZMAT personnel, and PM data conversion team*
- Is this a one time effort?

  This is a 95% solution, all future effort is data maintenance by user
- **Database population and completion is a prerequisite for equipment transfer to units**

Data Fields
TC-AIMS II vs. TC ACCIS

- TC-AIMS II requires more data than TC ACCIS
  - Trailer data, i.e., trailer type, tongue weight, tongue length
  - Inherent hazards

- TC-AIMS II implements higher standard for mandatory data elements
  - Axle data
  - Bumper number, serial number
  - Pack type code, pallet ID

Fielding Planning Process

Calendar of Events

Action	Start Date	End Date
FCGC/Pre-site Survey	4 Aug 2004	4 Aug 2004
FORSCOM/DPMO BP Workshop	4 Aug 2004	4 Aug 2004
Staff draft MOA before NMIB	4 Aug 2004	Feb 2005
Installation NMIB/Survey	*Feb 2005*	*Feb 2005*
Finalize MOA	*Feb 2005*	*Feb 2005*
Initial Equipment Set up and Testing	*18 July 2005*	*1 Aug 2005*
Hardware Required Delivery date	*18 July 2005*	*Incremental shipping*
Establish Job Profiles (user account)	*30 June 05*	*Continuous for later courses*
Student Name	*30 June 05*	*Continuous for later courses*
Identify SBT Participating Units	*Feb 2005*	
JUC (Joint User Course) Training	*1 Aug 2005*	*Feb 2006*
SA/DBA Training	*1 Aug 2005*	*Feb 2006*
Data Completeness	*15 Aug 2005*	*Feb 2006*
SBT (Scenario Based Training) Total of two SBTs	*Potential dates 3 Oct 05, 5 Dec05, 23 Jan 06*	
Fielding Complete		*Feb / March 2006*

TC-AIMS Fielding Preparation Process

ACTIVITY	TIMEFRAME
Pre-Site Survey • FCGC briefing • Pre-site survey working group • Draft MOA template provided	**Pre-Site Survey** • 240 days before fielding • 1 JPMO and 1 Service rep • 1-2 days duration
Site Survey • NMIB/Executive briefings • Coordinate and schedule fielding activities • Validate HW and training requirements • Complete MOA	**Site Survey** • 150 days before fielding • 1-2 JPMO rep(s) • 1 function rep • 1 training rep • 1 installation coordinator • 3-5 days duration • Data conversion coordinator
JPMO order HW and training	**75-90 days before fielding**

Actions Between FCGC and NMIB/Site Survey

- Finalize distribution plan with TIS JPMO
- Conduct business process workshop with DPMO and FORSCOM
- Review and provide recommended changes to draft MOA
- Identify local system administrators
- Establish priorities for data completion, training and equipment handoff
- Determine unit allocations for training
- Identify fielding and training facilities

NMIB/Site Survey FOCUS

- Coordinate and schedule all events during fielding period
- Complete the following events
  - Conduct executive briefing for commanders
  - Conduct working group brief
  - Conduct working groups
    - Local administrator workshop
    - Installation business process
    - Validate HW and training requirements
    - Schedule units for training
    - Coordinate detailed fielding schedule
    - DOIM/CIO/information assurance
  - Visit proposed facilities
- Finalize Memorandum of Agreement (MOA) for
  - Hardware distribution
  - Fielding and training schedule

NMIB/Site Survey Participants

NMIB/Executive Brief

- Commanders
- Operations Officers
- Logistics Officer
- STARC Representatives
- RSC Representatives
- Installation Transportation Officer
- Director of Logistics
- Force Integration Officers
- Director of Information Management
- Mobility Warrant Officers
- USASOC Representative(s)

Site Survey Working Group

- Force Integration Officers
- Major Unit training coordinators (AC, RC, NGB)
- Major Unit Information/Automation Officer
- Director of Information Management
- TC-ACCIS manager
- CSS/AMO
- Mobility Warrants
- Operations/Plans Officers
- Personnel/SIDPERS Representative
- USASOC Representative(s)

Information Needed at NMIB/Site Survey

- Installation deployment process information
  - Results of business process workshop
  - Physical move process from unit area until departure from installation
  - Functions performed at key points in the process and TC-AIMS II equipment required at each location
- Organizational structure by UIC
- Proposed facilities for fielding team
- Installation priorities for fielding and training
- Units that may be deployed or unavailable during fielding window
- Recommended changes to the distribution plan

Typical NMIB/Site Survey Schedule

Date	Time	Activity	Personnel to Attend
Day 1	0930-1130	TC-AIMS II Fielding and Business Process Briefings	ITO, Div G3/4/6, Sep Bde S3/4/6, all DST's, DOIM
	1300-1700	Information assurance and local administrator workshop	IASO's designated local SA; DOIM, Div G6 representative
Day 2	0830-1130	Coordination visit to DOL, DOIM, Distance Learning facility	
	1300-1700	Major unit planning session (Div)	Div G3/4, DTO, Bde level S3/4
Day 3	0830-1130	Major unit planning session (Div)	Div G3/4, DTO, Bde level S3/4
	1300-1700	Major unit planning session (COSCOM)	G3/4, Bde level S3/4, Related Transportation staff
Day 4	0830-1130	USAR and USARNG planning session	TBD by NGB and USARC
	1300-1700	Separate Bde session	COSCOM Staff, Group/BN S3/4
Day 5	0930-1130	MOA scrub	Div G3/4, ITO, USAR. NGB, FORSCOM
	1330-1600	Separate Bde session	Div G3/4, Sep Bde S3/4, all DST's

NMIB/Site Survey Support Requirement

- Conference room/working area to conduct working group sessions
  - White boards with markers
  - Two LAN/internet connections
  - Screen/wall suitable for presentations
  - Two telephones (or access to) with post and commercial connectivity

Actions Between NMIB/ Site Survey and Fielding

- JPMO TIS order equipment 90 days prior to first training class
- Register students in ATRRS NLT 45 days before training class
- Establish local administrator accounts NLT 90 days prior to start of fielding
- Local administrator submit bulk registration for users NLT 60 days prior to the start of training

TIS Key Personnel

https://www.tis.army.mil/

Project Manager

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Deputy Project Manager

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Technical Directorate

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Ms. Linda Young (703) 752-0758

Director of Integrated Logistics Support and Fielding

Mr. Doug Garrell (703) 752-0759

Deputy Director of Integrated Logistics Support and Fielding

Vacant

Chief, ILS Division

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MAJ Joseph Yates (USAF) (703) 752-0847